

IN THE CLAIMS:

Please amend claims 8, 12, 13, 17, 18, 22, 23, and 29 as follows. Please cancel claims 1-7, 27 and 28 without prejudice.

Claims 1-7 (Cancelled).

8. (Currently Amended) ~~An arrangement according to claim 7,~~ An arrangement of a local area network in a customer's premise comprising a gateway through which the local area network is connected to an outside network via an xDSL subscriber line, in which local area network band division filters are connected to sockets of the local area network for separating voice band signals and traffic of the local area network both the voice band signals and the traffic distributed by the local area network, and for connecting voice band terminals and network stations to the local area network,

wherein the band division filter comprises two parts, the first part being formed from a low-pass filter between the voice band terminal and the local area network, and the second part being formed from a band stop filter between the network station and the local area network, and

wherein the band stop filter comprises a transformer between wires of ~~the~~ a pair line coming from the local area network, and a resistor and capacitor connected to one of said wires parallel with a first winding of the transformer, and furthermore another resistor and capacitor connected to the other wire parallel with a second winding of the

transformer, said components forming a filtering element and connecting the network station to the local area network.

9. (Original) An arrangement according to claim 8, wherein at least two filtering elements are connected in series.

10. (Original) An arrangement according to claim 8, wherein the filtering element further comprises a transversal element between the lines.

11. (Original) An arrangement according to claim 9, wherein the arrangement further comprises at least one transversal element between the lines.

12. (Currently Amended) An arrangement according to claim 8, wherein the band division filter comprises two parts, the first part being formed from a low-pass filter between the voice band terminal and the local area network, and the second part being formed from a band stop filter between the network station and the local area network.

13. (Currently Amended) ~~An arrangement according to claim 12,~~ An arrangement of a local area network in a customer's premise comprising a gateway through which the local area network is connected to an outside network via an xDSL subscriber line, in which local area network band division filters are connected to sockets of the local area

network for separating voice band signals and traffic of the local area network both the voice band signals and the traffic distributed by the local area network, and for connecting voice band terminals and network stations to the local area network,

wherein transmission lines of the local area network are formed from telephone lines in the customer's premise,

the local area network is a Home PNA network, and

the band division filter comprises two parts, the first part being formed from a low-pass filter between the voice band terminal and the local area network, and the second part being formed from a band stop filter between the network station and the local area network, and

wherein the band stop filter comprises a transformer between wires of ~~the~~ a pair line coming from the local area network, and a resistor and capacitor connected to one of said wires parallel with a first winding of the transformer, and furthermore another resistor and capacitor connected to the other wire parallel with a second winding of the transformer, said components forming a filtering element and connecting the network station to the local area network.

14. (Original) An arrangement according to claim 13, wherein at least two filtering elements are connected in series.

15. (Original) An arrangement according to claim 13, wherein the filtering element further comprises a transversal element between the lines.

16. (Original) An arrangement according to claim 14, wherein the arrangement further comprises at least one transversal element between the lines.

17. (Currently Amended) An arrangement according to claim ~~13~~ 5, wherein the band division filter comprises two parts, the first part being formed from a low-pass filter between the voice band terminal and the local area network, and the second part being formed from a band stop filter between the network station and the local area network.

18. (Currently Amended) ~~An arrangement according to claim 17,~~ An arrangement of a local area network in a customer's premise comprising a gateway through which the local area network is connected to an outside network via an xDSL subscriber line, in which local area network band division filters are connected to sockets of the local area network for separating voice band signals and traffic of the local area network both the voice band signals and the traffic distributed by the local area network, and for connecting voice band terminals and network stations to the local area network,

wherein transmission lines of the local area network are formed from telephone lines in the customer's premise, the xDSL subscriber line is an ADSL line, and the gateway is an ADSL terminal,

wherein the band division filter comprises two parts, the first part being formed from a low-pass filter between the voice band terminal and the local area network, and the second part being formed from a band stop filter between the network station and the local area network, and

wherein the band stop filter comprises a transformer between wires of ~~the~~ a pair line coming from the local area network, and a resistor and capacitor connected to one of said wires parallel with a first winding of the transformer, and furthermore another resistor and capacitor connected to the other wire parallel with a second winding of the transformer, said components forming a filtering element and connecting the network station to the local area.

19. (Original) An arrangement according to claim 18, wherein at least two filtering elements are connected in series.

20. (Original) An arrangement according to claim 18, wherein the filtering element further comprises a transversal element between the lines.

21. (Original) An arrangement according to claim 19, wherein the arrangement further comprises at least one transversal element between the lines.

22. (Currently Amended) An arrangement according to claim 18 6, wherein the band division filter comprises two parts, the first part being formed from a low-pass filter between the voice band terminal and the local area network, and the second part being formed from a band stop filter between the network station and the local area network.

23. (Currently Amended) ~~An arrangement according to claim 22,~~ An arrangement of a local area network in a customer's premise comprising a gateway through which the local area network is connected to an outside network via an xDSL subscriber line, in which local area network band division filters are connected to sockets of the local area network for separating voice band signals and traffic of the local area network both the voice band signals and the traffic distributed by the local area network, and for connecting voice band terminals and network stations to the local area network,

wherein transmission lines of the local area network are formed from telephone lines in the customer's premise, the xDSL subscriber line is an ADSL line, the gateway is an ADSL terminal, the local area network is a HomePNA network,

wherein the band division filter comprises two parts, the first part being formed from a low-pass filter between the voice band terminal and the local area network, and the second part being formed from a band stop filter between the network station and the local area network, and

wherein the band stop filter comprises a transformer between wires of ~~the~~ a pair line coming from the local area network, and a resistor and capacitor connected to one of

said wires parallel with a first winding of the transformer, and furthermore another resistor and capacitor connected to the other wire parallel with a second winding of the transformer, said components forming a filtering element and connecting the network station to the local area network.

24. (Original) An arrangement according to claim 23, wherein at least two filtering elements are connected in series.

25. (Original) An arrangement according to claim 23, wherein the filtering element further comprises a transversal element the lines.

26. (Original) An arrangement according to claim 24, wherein the arrangement further comprises at least one transversal element between the lines.

27. (Cancelled)

28. (Cancelled)

29. (Currently Amended) ~~A filter according to claim 28,~~ A filter for a local area network in a customer's premise wherein the filter is connected to a socket of the local area network for separating voice band signals and traffic of the local area network both

the voice band signals and the traffic distributed by the local area network, and for connecting voice band terminals and network stations to the local area network,

wherein the band division filter comprises two parts, the first part being formed from a low-pass filter between the voice band terminal and the local area network, and the second part being formed from a band stop filter between the network station and the local area network, and

wherein the band stop filter comprises a transformer between wires of ~~the~~ a pair line coming from the local area network, and a resistor and capacitor connected to one of said lines parallel with a first winding of the transformer, and furthermore another resistor and capacitor connected to the other line parallel with a second winding of the transformer, said components forming a filtering element and connecting the network station to the local area network.

30. (Original) A filter according to claim 29, wherein at least two filtering elements are connected in series.

31. (Original) A filter according to claim 29, wherein the filtering element further comprises a transversal element between the lines.

32. (Original) A filter according to claim 30, wherein the filter further comprises at least one transversal element between the lines.